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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/695,704	10/25/2000	Axel Thomsen	50246-171	1502
7590 03/15/2004		EXAMINER		
Barry S Newberger Esq			. DO, CHAT C	
Winstead Sechrest & Minick PC P O Box 50784 1201 Elm Street			ART UNIT	PAPER NUMBER
			2124	
Dallas, TX 75	270		DATE MAILED: 03/15/2004	12

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

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		1				
	Application No.	Applicant(s)				
	09/695,704	THOMSEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Chat C. Do	2124				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30) days, and if NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by such any reply received by the Office later than three months after the nearned patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, however, may a n. a reply within the statutory minimum of the eriod will apply and will expire SIX (6) MC tatute, cause the application to become a	a reply be timely filed hirty (30) days will be considered timely. NNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>@</u>	05 February 2004.					
2a)⊠ This action is FINAL . 2b)□						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 5)⊠ Claim(s) <u>2</u> is/are allowed. 6)⊠ Claim(s) <u>1 and 5-8</u> is/are rejected. 7)⊠ Claim(s) <u>3-4</u> is/are objected to. 	4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) <u>2</u> is/are allowed. Claim(s) <u>1 and 5-8</u> is/are rejected. Claim(s) <u>3-4</u> is/are objected to.					
Application Papers						
9) The specification is objected to by the Exar 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co 11) The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abeya rrection is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for force a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in priority documents have bee ireau (PCT Rule 17.2(a)).	Application No n received in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
 Notice of Draftsperson's Patent Drawing Review (PTO-948 Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date 		o(s)/Mail Date Informal Patent Application (PTO-152) 				

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DETAILED ACTION

- 1. This communication is responsive to Amendment B, filed 2/5/2004.
- 2. Claims 1-8 are pending in this application. Claims 1-2 and 7-8 are independent claims. In Amendment B, claims 1-2 and 7-8 are amended. This action is made final.

Claim Objections

3. Claim 3 is objected to because of the following informalities: the word "RR" should change to "FIR" in line 3 in claim 3. Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1, and 5-8 are rejected under 35 U.S.C. 103(a) as being obvious over Cabler et al. (U.S. 5,656,621) in view of Matlab ("Signal Processing Toolbox for Use with Matlab: Chapter 5 Interactive Tools").

Re claim 1, Cabler et al. disclose in Figure 39 an integrated circuit comprising: an analog to digital converter (900) and an FIR filter (902). Cabler et al. does not disclose an output mechanism selectively providing either only fully settled data from the FIR filter or all data from the FIR filter, including unsettled data. However, Matlab discloses

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in pages 5-24 and 5-33 an output mechanism (signal browser of Figure in page 5-33) selectively providing either a partial/fully settle result by editing the time axis or a full result from the FIR filter by clicking full view button in the tool bar. Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention is made to add an output mechanism selector in Figure 2 for selecting the desired results to the FIR filter as seen in Matlab's invention into Figure 1 of Cabler et al.'s invention because it would enable the operator to select the portion of the desired signals, to reduce the initial unsteady state, and to increase the immunity from the process variation.

Re claim 5, Cabler et al. further disclose the analog to digital converter is a delta sigma modular (900).

Re claim 6, Cabler et al. further disclose the FIR filter is a decimation filter (902).

Re claim 7, it is a design method of claim 1. Thus, claim 7 is also rejected under the same rationale in the rejection of rejected claim 1.

Re claim 8, it is a fabricated method of claim 1. Thus, claim 8 is also rejected under the same rationale in the rejection of rejected claim 1.

Allowable Subject Matter

- 6. Claim 2 is allowed.
- 7. Claims 3-4 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Response to Arguments

8. Applicant's arguments filed 2/5/2004 have been fully considered but they are not persuasive.

a. The applicant argues in pages 6-7 for claim 1 that the cited Matlab reference does not disclose an output mechanism providing either only fully settled data from the FIR filter or all data from the FIR filter, including unsettled data.

The examiner respectfully submits that the cited Matlab reference does not explicitly disclose an output mechanism providing either only fully settled data from the FIR filter or all data from the FIR filter, including unsettled data as cited in claim 1. However, the examiner uses the concept of Matlab reference that capable of viewing/displaying the desired portion of filter data wherein the desired portion might contain all the output filter data or might contain only the settled output filter data by a set of controls (output mechanism). Based on the claim language of claim 1, it does not clearly require any particular structure of an output mechanism to provide either fully settle data or all data from FIR filter. Therefore, it would have been obvious to a person having ordinary skill in the art to use the concept of displaying the output filtered data in Matlab reference into Cabler et al.'s invention in order to select and view the desired portion of output filtered data.

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Conclusion

9. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chat C. Do whose telephone number is (703) 305-5655. The examiner can normally be reached on M => F from 7:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chaki Kakali can be reached on (703) 305-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Chat C. Do Examiner Art Unit 2124

March 4, 2004

SUPERVISORY PATENT EXAMINER

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